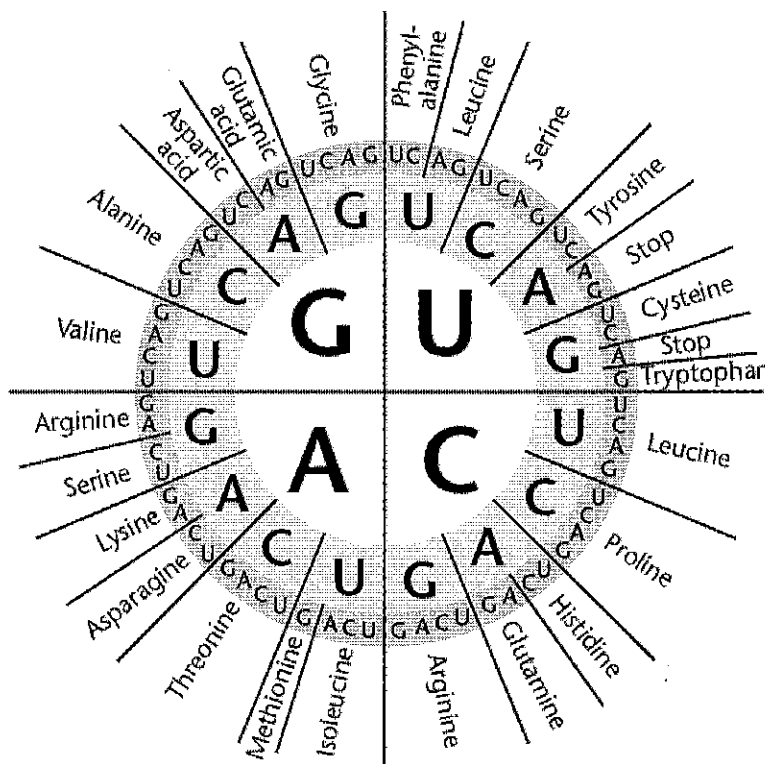


## Decoding mRNA

The diagram shows the mRNA codes that correspond to amino acids and stop codons. Read the diagram from the center outwards. For example, the mRNA code UAC corresponds to the amino acid tyrosine.

Write the name of the amino acid that corresponds to each mRNA code. The first one has been done for you.



mRNA Code	Amino Acid
AAA	lysine
GCG	
GAU	
CAA	

Use the diagram to answer the questions.

1. Which two mRNA codes correspond to histidine?

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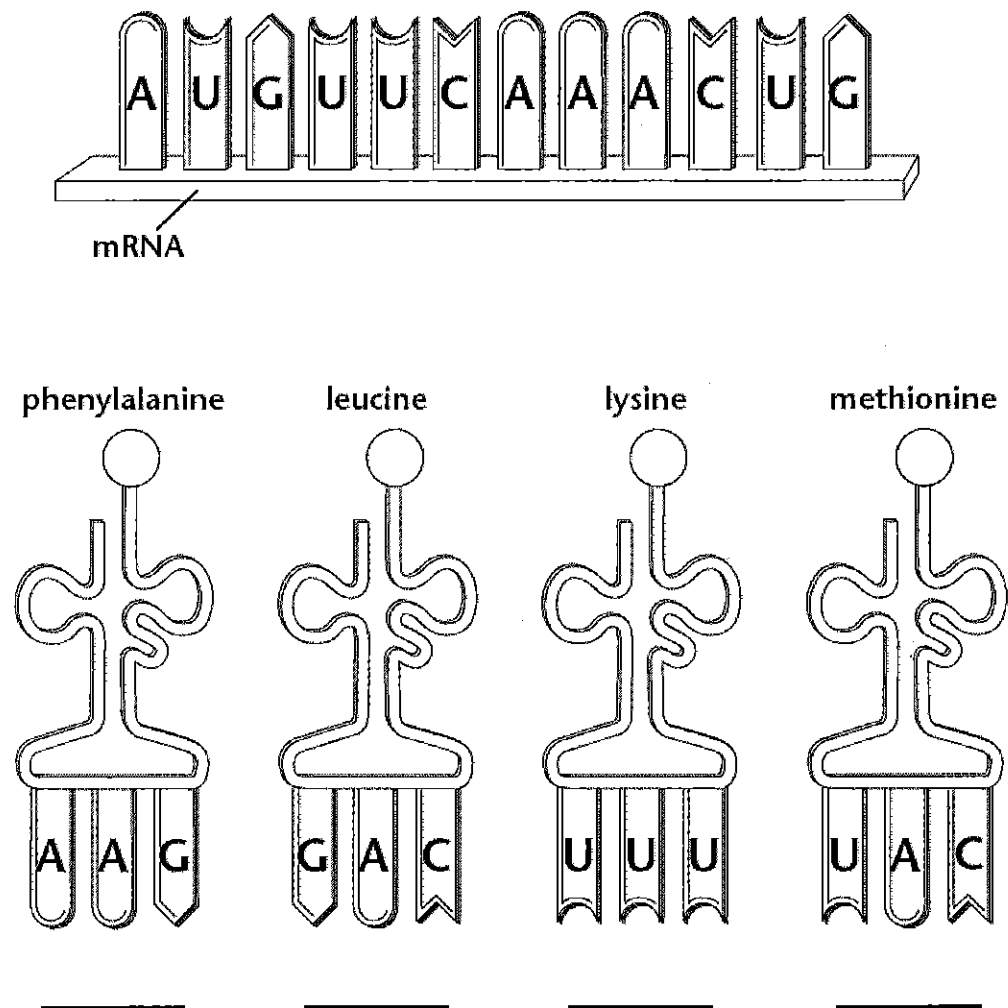
2. How many different mRNA codes correspond to arginine?

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## Translation

During translation, transfer RNA (tRNA) anticodons match to messenger RNA (mRNA) codons. Each tRNA molecule can carry one particular amino acid. The amino acids are joined to form a polypeptide.

*Number the four tRNA anticodons in the order in which they should appear to match the codons in the mRNA strand.*



*Use the diagrams to answer the question.*

- List the amino acids in the order they would appear in the polypeptide coded for by the mRNA.

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